Balanced/unbalanced forces: <http://www.physics4kids.com/files/motion_force.html>

1. What are balanced forces?
2. What are unbalanced forces?
3. How does gravity affect balanced/unbalanced forces?
4. Give three detailed examples of balanced/unbalanced forces.
5. Create a demonstration or illustration that shows balanced/unbalanced forces.

Gravity: <http://www.physics4kids.com/files/motion_gravity.html>

1. What is gravity?
2. How does it affect objects?
3. How does it affect objects in motion?
4. Give three detailed examples of gravity.
5. Create a demonstration or illustration of gravity at work.

Acceleration: <http://www.physics4kids.com/files/motion_velocity.html>

1. What is acceleration?
2. How does the velocity of an object affect acceleration?
3. How does speed affect acceleration?
4. Give three detailed examples of acceleration.
5. Create a demonstration or illustration that shows acceleration.

Friction: <http://www.physics4kids.com/files/motion_friction.html>

1. What is friction?
2. How does friction affect motion of objects?
3. What materials cause greater friction? Less friction?
4. Give three detailed examples of friction.
5. Create a demonstration or illustration that shows friction.

Isaac Newton <http://gardenofpraise.com/ibdnewt.htm>

<http://teachertech.rice.edu/Participants/louviere/Newton/>

1. Who was Sir Isaac Newton?
2. How long did he live?
3. Describe in detail what Newton’s life was as a child and as a college student.
4. What experience occurred that got Newton thinking about gravity?
5. What were some of the major contributions he made to science? Describe these in detail!!!

Newton’s 1st Law of Motion <http://www.wisc-online.com/Objects/ViewObject.aspx?ID=tp1202>

<http://teachertech.rice.edu/Participants/louviere/Newton/>

<http://www.historyforkids.org/scienceforkids/physics/movement/newtonlaw1.htm>

<http://www.physics4kids.com/files/motion_laws.html>

1. What does the Newton’s 1st law say?
2. What is an unbalanced force?
3. What is the relationship between unbalanced forces and Newton’s 1st Law?
4. List 3 detailed examples that illustrate of Newton’s 1st Law.
5. Create a demonstration or illustration that shows Newton’s 1st Law.

Newton’s 2nd Law of Motion <http://teachertech.rice.edu/Participants/louviere/Newton/>

<http://www.physics4kids.com/files/motion_laws.html>

<http://www.wisc-online.com/objects/ViewObject.aspx?ID=tp1302>

1. What does Newton’s 2nd Law say?
2. What is acceleration?
3. What is the relationship between acceleration and Newton’s 2nd Law?
4. List 3 detailed examples that illustrate Newton’s 2nd Law.
5. Create a demonstration or illustration that shows Newton’s 2nd Law.

Newton’s 3rd Law of Motion

<http://teachertech.rice.edu/Participants/louviere/Newton/>

<http://www.physics4kids.com/files/motion_laws.html>

1. What does Newton’s 3rd Law say?
2. What is a force?
3. What is the relationship between force and Newton’s 3rd Law?
4. List 3 detailed examples of Newton’s 3rd Law.
5. Create a demonstration or illustration that shows Newton’s 3rd Law.